

**IN THE CLAIMS:**

Please make the following changes to the claims.

Please cancel claims 22 and 24 without prejudice.

Please add the following new claims:

---

25. (New) The system of claim 1, wherein the signal conditioned by the signal conditioner is taken from between the sensor and the resistive element.

b1

26. (New) The method of claim 12, including obtaining the signal of step (c) from between the sensor and the resistive element.

---